Chengming Huang

List of Publications by Year
in descending order

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116 papers	2,592 citations	172457 29 h-index	223800 46 g-index
117 all docs	117 docs citations	117 times ranked	836 citing authors

#	Article	IF	Citations
1	Conforming and nonconforming VEMs for the fourth-order reactionâ€“subdiffusion equation: a unified framework. IMA Journal of Numerical Analysis, 2022, 42, 2238-2300.	2.9	24
2	Numerical methods for stochastic Volterra integral equations with weakly singular kernels. IMA Journal of Numerical Analysis, 2022, 42, 2656-2683.	2.9	14
3	A two-parameter Milstein method for stochastic Volterra integral equations. Journal of Computational and Applied Mathematics, 2022, 404, 113870.	2.0	2
4	Delay dependent asymptotic mean square stability analysis of the stochastic exponential Euler method. Journal of Computational and Applied Mathematics, 2021, 382, 113068.	2.0	16
5	Mean-square stability and convergence of a split-step theta method for stochastic Volterra integral equations. Journal of Computational and Applied Mathematics, 2021, 382, 113077.	2.0	6
6	Asymptotic separation for stochastic Volterra integral equations with doubly singular kernels. Applied Mathematics Letters, 2021, 113, 106880.	2.7	6
7	Compensated projected Euler-Maruyama method for stochastic differential equations with superlinear jumps. Applied Mathematics and Computation, 2021, 393, 125760.	2.2	4
8	A linearized high-order Galerkin finite element approach for two-dimensional nonlinear time fractional Klein-Gordon equations. Numerical Algorithms, 2021, 87, 551-574.	1.9	3
9	Galerkinâ€Legendre spectral method for the nonlinear Ginzburgâ€Landau equation with the Riesz fractional derivative. Mathematical Methods in the Applied Sciences, 2021, 44, 2711-2730.	2.3	10
10	An accurate Legendre collocation method for third-kind Volterra integro-differential equations with non-smooth solutions. Numerical Algorithms, 2021, 88, 1571-1593.	1.9	2
11	Unconditional Energy Dissipation and Error Estimates of the SAV Fourier Spectral Method for Nonlinear Fractional Generalized Wave Equation. Journal of Scientific Computing, 2021, 88, 1.	2.3	7
12	Recovery of high order accuracy in spectral collocation method for linear Volterra integral equations of the third-kind with non-smooth solutions. Journal of Computational and Applied Mathematics, 2021, 392, 113458.	2.0	5
13	A high-order L2 type difference scheme for the time-fractional diffusion equation. Applied Mathematics and Computation, 2021, 411, 126545.	2.2	13
14	A relaxation-type Galerkin FEM for nonlinear fractional SchrÃ¶dinger equations. Numerical Algorithms, 2020, 83, 99-124.	1.9	24
15	Galerkinâ€“Legendre spectral method for the distributed-order time fractional fourth-order partial differential equation. International Journal of Computer Mathematics, 2020, 97, 1183-1196.	1.8	18
16	Fast conservative numerical algorithm for the coupled fractional Klein-Gordon-SchrÃ¶dinger equation. Numerical Algorithms, 2020, 84, 1081-1119.	1.9	22
17	Error estimates of structureâ€preserving Fourier pseudospectral methods for the fractional SchrÃ¶dinger equation. Numerical Methods for Partial Differential Equations, 2020, 36, 369-393.	3.6	6
18	Projected Euler-Maruyama method for stochastic delay differential equations under a global monotonicity condition. Applied Mathematics and Computation, 2020, 366, 124733.	2.2	2

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19	Highly stable multistep Rungeâ€“Kutta methods for Volterra integral equations. Computational and Applied Mathematics, 2020, 39, 1.	2.2	2
20	A dissipation-preserving finite element method for nonlinear fractional wave equations on irregular convex domains. Mathematics and Computers in Simulation, 2020, 177, 404-419.	4.4	14
21	Dissipation-preserving Galerkinâ€“Legendre spectral methods for two-dimensional fractional nonlinear wave equations. Computers and Mathematics With Applications, 2020, 80, 617-635.	2.7	12
22	A second-order implicit difference scheme for the nonlinear time-space fractional SchrÃ¶dinger equation. Applied Numerical Mathematics, 2020, 153, 399-411.	2.1	9
23	Exponential fitting collocation methods for a class of Volterra integral equations. Applied Mathematics and Computation, 2020, 376, 125121.	2.2	2
24	A linearized conservative Galerkinâ€“Legendre spectral method for the strongly coupled nonlinear fractional SchrÃ¶dinger equations. Advances in Difference Equations, 2020, 2020, .	3.5	3
25	The Linear Barycentric Rational Quadrature Method for Auto-Convolution Volterra Integral Equations. Journal of Scientific Computing, 2019, 78, 549-564.	2.3	19
26	Stability analysis of Runge-Kutta methods for Volterra integro-differential equations. Applied Numerical Mathematics, 2019, 146, 73-88.	2.1	6
27	Nonconforming Virtual Element Method for the Time Fractional Reactionâ€“Subdiffusion Equation with Non-smooth Data. Journal of Scientific Computing, 2019, 81, 1823-1859.	2.3	42
28	Barycentric rational collocation methods for Volterra integral equations with weakly singular kernels. Computational and Applied Mathematics, 2019, 38, 1.	2.2	6
29	A Spectral Penalty Method for Two-Sided Fractional Differential Equations with General Boundary Conditions. SIAM Journal of Scientific Computing, 2019, 41, A1840-A1866.	2.8	5
30	An efficient difference scheme for the coupled nonlinear fractional Ginzburgâ€“Landau equations with the fractional Laplacian. Numerical Methods for Partial Differential Equations, 2019, 35, 394-421.	3.6	35
31	Asymptotic Results of Schwarz Waveform Relaxation Algorithm for Time Fractional Cable Equations. Communications in Computational Physics, 2019, 25, .	1.7	0
32	A mass-energy preserving Galerkin FEM for the coupled nonlinear fractional SchrÃ¶dinger equations. European Physical Journal Plus, 2018, 133, 1.	2.6	13
33	An efficient fourth-order in space difference scheme for the nonlinear fractional Ginzburgâ€“Landau equation. BIT Numerical Mathematics, 2018, 58, 783-805.	2.0	34
34	A fast linearized conservative finite element method for the strongly coupled nonlinear fractional SchrÃ¶dinger equations. Journal of Computational Physics, 2018, 358, 256-282.	3.8	155
35	Optimal superconvergence results for Volterra functional integral equations with proportional vanishing delays. Applied Mathematics and Computation, 2018, 320, 292-301.	2.2	6
36	An efficient split-step quasi-compact finite difference method for the nonlinear fractional Ginzburgâ€“Landau equations. Computers and Mathematics With Applications, 2018, 75, 2223-2242.	2.7	29

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37	Structure-preserving numerical methods for the fractional SchrÃ¶dinger equation. Applied Numerical Mathematics, 2018, 129, 137-158.	2.1	46
38	Mixed finite-element method for multi-term time-fractional diffusion and diffusion-wave equations. Computational and Applied Mathematics, 2018, 37, 2309-2334.	1.3	20
39	Unconditional error analysis of Galerkin FEMs for nonlinear fractional SchrÃ¶dinger equation. Applicable Analysis, 2018, 97, 295-315.	1.3	16
40	Delay dependent stability of stochastic split-step Î¸ methods for stochastic delay differential equations. Applied Mathematics and Computation, 2018, 339, 663-674.	2.2	1
41	Galerkin finite element method for nonlinear fractional SchrÃ¶dinger equations. Numerical Algorithms, 2017, 74, 499-525.	1.9	90
42	Galerkin finite element method for higher dimensional multi-term fractional diffusion equation on non-uniform meshes. Applicable Analysis, 2017, 96, 1269-1284.	1.3	20
43	ADI Galerkin FEMs for the 2D nonlinear time-space fractional diffusion-wave equation. International Journal of Modeling, Simulation, and Scientific Computing, 2017, 08, 1750025.	1.4	16
44	Galerkin finite element method for the nonlinear fractional Ginzburgâ€“Landau equation. Applied Numerical Mathematics, 2017, 118, 131-149.	2.1	50
45	An adaptive Filon-type method for oscillatory integrals without stationary points. Numerical Algorithms, 2017, 75, 753-775.	1.9	10
46	Collocation methods for Volterra functional integral equations with non-vanishing delays. Applied Mathematics and Computation, 2017, 296, 198-214.	2.2	10
47	The moment exponential stability criterion of nonlinear hybrid stochastic differential equations and its discrete approximations. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2016, 146, 1303-1328.	1.2	10
48	Point-wise error estimate of a conservative difference scheme for the fractional SchrÃ¶dinger equation. Journal of Computational and Applied Mathematics, 2016, 306, 231-247.	2.0	68
49	Superconvergence in collocation methods for Volterra integral equations with vanishing delays. Journal of Computational and Applied Mathematics, 2016, 308, 361-378.	2.0	13
50	An implicit midpoint difference scheme for the fractional Ginzburgâ€“Landau equation. Journal of Computational Physics, 2016, 312, 31-49.	3.8	62
51	Split-step alternating direction implicit difference scheme for the fractional SchrÃ¶dinger equation in two dimensions. Computers and Mathematics With Applications, 2016, 71, 1114-1128.	2.7	35
52	Double-implicit and split two-step Milstein schemes for stochastic differential equations. International Journal of Computer Mathematics, 2016, 93, 1987-2011.	1.8	6
53	Stochastic exponential integrator for finite element spatial discretization of stochastic elastic equation. Computers and Mathematics With Applications, 2015, 69, 817-827.	2.7	3
54	Exponential mean square stability of the theta approximations for neutral stochastic differential delay equations. Journal of Computational and Applied Mathematics, 2015, 286, 172-185.	2.0	35

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55	Theta schemes for SDDEs with non-globally Lipschitz continuous coefficients. Journal of Computational and Applied Mathematics, 2015, 278, 258-277.	2.0	33
56	An energy conservative difference scheme for the nonlinear fractional SchrÃ¶dinger equations. Journal of Computational Physics, 2015, 293, 238-251.	3.8	179
57	A conservative linearized difference scheme for the nonlinear fractional SchrÃ¶dinger equation. Numerical Algorithms, 2015, 69, 625-641.	1.9	54
58	Convergence analysis of spectral collocation methods for a class of weakly singular Volterra integral equations. Applied Mathematics and Computation, 2015, 250, 131-144.	2.2	5
59	The Stochastic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mi mathvariant="normal">Î˜</mml:mi></mml:mrow></mml:math>-Method for Nonlinear Stochastic Volterra Integro-Differential Equations. Abstract and Applied Analysis, 2014, 2014, 1-13.	0.7	7
60	Strong Convergence of the Split-Step Theta Method for Stochastic Delay Differential Equations with Nonglobally Lipschitz Continuous Coefficients. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.7	5
61	Some New Results on the Lotka-Volterra System with Variable Delay. Abstract and Applied Analysis, 2014, 2014, 1-10.	0.7	0
62	Mean square stability and dissipativity of two classes of thetaÂmethods for systems of stochastic delay differential equations. Journal of Computational and Applied Mathematics, 2014, 259, 77-86.	2.0	44
63	Spectral collocation method for linear fractional integro-differential equations. Applied Mathematical Modelling, 2014, 38, 1434-1448.	4.2	96
64	Strong convergence of split-step theta methods for non-autonomous stochastic differential equations. International Journal of Computer Mathematics, 2014, 91, 2260-2275.	1.8	14
65	Preserving exponential mean square stability and decay rates in two classes of theta approximations of stochastic differential equations. Journal of Difference Equations and Applications, 2014, 20, 1091-1111.	1.1	16
66	Convergence and stability of the semi-tamed Euler scheme for stochastic differential equations with non-Lipschitz continuous coefficients. Applied Mathematics and Computation, 2014, 228, 240-250.	2.2	33
67	Delay-dependent dissipativity of nonlinear delay differential equations. Applied Mathematics Letters, 2013, 26, 924-928.	2.7	5
68	Numerical solution of fractional integro-differential equations by a hybrid collocation method. Applied Mathematics and Computation, 2013, 219, 6750-6760.	2.2	82
69	The Boundedness and Exponential Stability Criterions for Nonlinear Hybrid Neutral Stochastic Functional Differential Equations. Abstract and Applied Analysis, 2013, 2013, 1-12.	0.7	2
70	Convergence analysis of the overlapping Schwarz waveform relaxation algorithm for reaction-diffusion equations with time delay. IMA Journal of Numerical Analysis, 2012, 32, 632-671.	2.9	9
71	Delay-dependent exponential stability of the backward Euler method for nonlinear stochastic delay differential equations. International Journal of Computer Mathematics, 2012, 89, 1039-1050.	1.8	11
72	Stochastic stability of a class of unbounded delay neutral stochastic differential equations with general decay rate. International Journal of Systems Science, 2012, 43, 308-318.	5.5	11

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73	Unconditionally stable difference methods for delay partial differential equations. Numerische Mathematik, 2012, 122, 579-601.	1.9	34
74	Delay-dependent stability analysis of numerical methods for stochastic delay differential equations. Journal of Computational and Applied Mathematics, 2012, 236, 3514-3527.	2.0	29
75	Exponential mean square stability of numerical methods for systems of stochastic differential equations. Journal of Computational and Applied Mathematics, 2012, 236, 4016-4026.	2.0	66
76	Existence results and the moment estimate for nonlocal stochastic differential equations with time-varying delay. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 405-416.	1.1	11
77	Quasi-optimized Schwarz methods for reaction diffusion equations with time delay. Journal of Mathematical Analysis and Applications, 2012, 385, 354-370.	1.0	2
78	Lasalle method and general decay stability of stochastic neural networks with mixed delays. Journal of Applied Mathematics and Computing, 2012, 38, 257-278.	2.5	8
79	Stability of stochasticÎ¸-methods for stochastic delay integro-differential equations. International Journal of Computer Mathematics, 2011, 88, 1417-1429.	1.8	17
80	General decay pathwise stability of neutral stochastic differential equations with unbounded delay. Acta Mathematica Sinica, English Series, 2011, 27, 2153-2168.	0.6	3
81	Analytical and numerical stability of nonlinear neutral delay integro-differential equations. Journal of the Franklin Institute, 2011, 348, 1082-1100.	3.4	8
82	Stochastic Lotkaâ€“Volterra models with multiple delays. Journal of Mathematical Analysis and Applications, 2011, 375, 42-57.	1.0	48
83	Two-step relaxation Newton algorithm for solving nonlinear algebraic equations. Journal of Applied Mathematics and Computing, 2010, 33, 459-470.	2.5	1
84	Delay-dependent stability analysis of trapezium rule for second order delay differential equations with three parameters. Journal of the Franklin Institute, 2010, 347, 1437-1451.	3.4	8
85	Robustness of general decay stability of nonlinear neutral stochastic functional differential equations with infinite delay. Systems and Control Letters, 2010, 59, 195-202.	2.3	75
86	Convergence and stability of numerical solutions to a class of index 1 stochastic differential algebraic equations with time delay. Applied Mathematics and Computation, 2010, 215, 4008-4021.	2.2	1
87	Two-Step Relaxation Newton Method for Nonsymmetric Algebraic Riccati Equations Arising from Transport Theory. Mathematical Problems in Engineering, 2009, 2009, 1-17.	1.1	6
88	Parareal-Richardson Algorithm for Solving Nonlinear ODEs and PDEs. Communications in Computational Physics, 2009, 6, 883-902.	1.7	10
89	Delay-dependent stability analysis of multistep methods for delay differential equations. Acta Mathematicae Applicatae Sinica, 2009, 25, 607-616.	0.7	5
90	Strong stability preserving hybrid methods. Applied Numerical Mathematics, 2009, 59, 891-904.	2.1	22

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91	Delay-dependent stability of high order Rungeâ€“Kutta methods. Numerische Mathematik, 2009, 111, 377-387.	1.9	23
92	Asymptotic stability of linear multistep methods for nonlinear neutral delay differential equations. Applied Mathematics and Computation, 2009, 211, 95-101.	2.2	14
93	Robustness of exponential stability of a class of stochastic functional differential equations with infinite delay. Automatica, 2009, 45, 2577-2584.	5.0	40
94	Convergence analysis of waveform relaxation methods for neutral differential-functional systems. Journal of Computational and Applied Mathematics, 2009, 223, 263-277.	2.0	4
95	Stability of Runge-Kutta-Pouzet methods for Volterra integro-differential equations with delays. Frontiers of Mathematics in China, 2009, 4, 63-87.	0.7	28
96	Newton waveform relaxation method for solving algebraic nonlinear equations. Applied Mathematics and Computation, 2008, 201, 553-560.	2.2	8
97	Asymptotic stability of multistep methods for nonlinear delay differential equations. Applied Mathematics and Computation, 2008, 203, 908-912.	2.2	6
98	Stability of linear multistep methods for delay integro-differential equations. Computers and Mathematics With Applications, 2008, 55, 2830-2838.	2.7	28
99	Stability analysis of general linear methods for the nonautonomous pantograph equation. IMA Journal of Numerical Analysis, 2008, 29, 444-465.	2.9	10
100	Discretized Stability and Error Growth of The Nonautonomous Pantograph Equation. SIAM Journal on Numerical Analysis, 2005, 42, 2020-2042.	2.3	30
101	Dissipativity of multistep runge-kutta methods for dynamical systems with delays. Mathematical and Computer Modelling, 2004, 40, 1285-1296.	2.0	22
102	An Analysis of Delay-Dependent Stability for Ordinary and Partial Differential Equations with Fixed and Distributed Delays. SIAM Journal of Scientific Computing, 2004, 25, 1608-1632.	2.8	75
103	B-convergence of general linear methods for stiff problems. Applied Numerical Mathematics, 2003, 47, 31-44.	2.1	3
104	Linear stability of numerical methods for systems of functional differential equations with a proportional delay*. Progress in Natural Science: Materials International, 2003, 13, 329-333.	4.4	3
105	Linear stability of numerical methods for systems of functional differential equations with a proportional delay. Progress in Natural Science: Materials International, 2003, 13, 329.	4.4	0
106	Stability analysis of numerical methods for systems of functional-differential and functional equations. Computers and Mathematics With Applications, 2002, 44, 717-729.	2.7	10
107	Nonlinear Stability of General Linear Methods for Delay Differential Equations. BIT Numerical Mathematics, 2002, 42, 380-392.	2.0	19
108	Convergence Results of One-Leg and Linear Multistep Methods for Multiply Stiff Singular Perturbation Problems. Computing (Vienna/New York), 2001, 66, 365-375.	4.8	5

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109	Linear stability of general linear methods for systems of neutral delay differential equations. Applied Mathematics Letters, 2001, 14, 1017-1021.	2.7	14
110	D-Convergence of general linear methods for stiff delay differential equations. Computers and Mathematics With Applications, 2001, 41, 627-639.	2.7	6
111	The asymptotic stability of multistep multiderivative methods for systems of delay differential equations. Communications in Nonlinear Science and Numerical Simulation, 2000, 5, 24-26.	3.3	0
112	Dissipativity of one-leg methods for dynamical systems with delays. Applied Numerical Mathematics, 2000, 35, 11-22.	2.1	33
113	Dissipativity of Runge-Kutta methods for dynamical systems with delays. IMA Journal of Numerical Analysis, 2000, 20, 153-166.	2.9	59
114	Stability and error analysis of one-leg methods for nonlinear delay differential equations. Journal of Computational and Applied Mathematics, 1999, 103, 263-279.	2.0	63
115	Stability Analysis of Runge-Kutta Methods for Non-Linear Delay Differential Equations. BIT Numerical Mathematics, 1999, 39, 270-280.	2.0	42
116	The generalized quadrature method for a class of highly oscillatory Volterra integral equations. Numerical Algorithms, 0, , .	1.9	0